



4 way HDBaseT Splitter with RS232

Product: 4K-TX941
HDBaseT splitter

**Comprehensive solution for distributing 4K HDMI
video and RS232 signals over 100m of Cat 6 cable**



- Ultra HD 2K and 4K, 1080p resolutions
- HDCP 2.2 compliant, HDMI V1.4
- Supports 1920x1200 @ 60 Hz
- 1 - 4 HDBaseT splitter
- 100m Cat6 extension—HDBaseT
- 4K@60Hz colour space 4:2:0
- Looping HDMI input
- RS232 pass-through
- Dolby TrueHD, DTS-HD Master Audio
- Total 10.2 Gbits/s data rate
- Remote powers the receivers (POC)
- Lockable DC connector
- EDID management
- Ethernet pass-through (output 1)

**Transmit a single high resolution 4K UHD HDMI signal together
with RS232 over a single 100m CAT6 cable to 4 displays**

The Smart-e **4K-TX941** is a 1 in and 4 out HDBaseT splitter with RS232 pass-through capable of transmitting 4K UHD signal over 100m of structured cabling (using the appropriate receiver)

The **4K-TX941** is a self contained HDBaseT splitter capable of transmitting HDMI signals up to 4K UHD resolutions over 100m of Cat 6 cable.

A single HDMI input can be connected to the rear of the unit where it gets split internally and then fed to 4 separate HDBaseT outputs. Each receiver (**4K-RX940**) decodes the HDBaseT protocol back to HDMI and RS232. Power is provided from the transmitter through the same Cat cable so there is no need for bulky PSUs at the display end. A secure lockable DC connector on the splitter provides a reliable power connection.

Each HDBaseT connection also allows for RS232 signals to be received back from the receiver enabling remote control of the source device. Fully HDCP 2.2 compliant this **4K-TX941** compact unit is ideal for digital signage use in Education, Entertainment and Retail Market.

The SDS range is from a family of digital
extenders & matrices using standard CAT 6-8 STP
cable to transmit HD signals over long distances

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SPECIFICATION - GENERAL

Video – Digital

Standards	DVI 1.0, HDMI 1.4. HDCP 2.2
Maximum data rate	1.65Gbps per colour
Maximum pixel clock	165MHz
Resolution range - DTV	480i, 480p, 720p, 1080i, 1080p, 2K, 4K
Resolution range - PC	VGA, SVGA, XGA, SXGA, UXGA
Frame rate	24, 25, 30, 50 & 60 Hz
Colour depth	up to 12 bits per colour
Formats	RGB and YCrCb
Colour space	4:4:4, 4:2:2

Audio – Digital

Standards	Embedded within the HDMI signal
Maximum audio channels	8
Maximum sample rate per channel	192 kHz
Sample size	16-24 bits

R232

Standards	RS232
Maximum signalling rate	19.2 kbaud
Protocol	Transparent
Type	Half duplex

Power

DC Voltage	2 x 12V PSU
AC Voltage	100-230 VAC
AC frequency	50/60 Hz
Power	60 Watts

Cat cable connectivity

Number of cables	1 x Cat 6/6A screened twisted pair cables
Connectors	1 x female screened RJ45 connectors per unit
Termination standard	TIA/EIA T568B
Cable requirements	Solid conductor, 24 AWG or better
Cable recommendations	400 MHz bandwidth STP (shielded twisted pair)
Transmission distance	100m shielded twisted pair CAT 6 or CAT 6A

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SPECIFICATION - TRANSMITTER

Transmitter

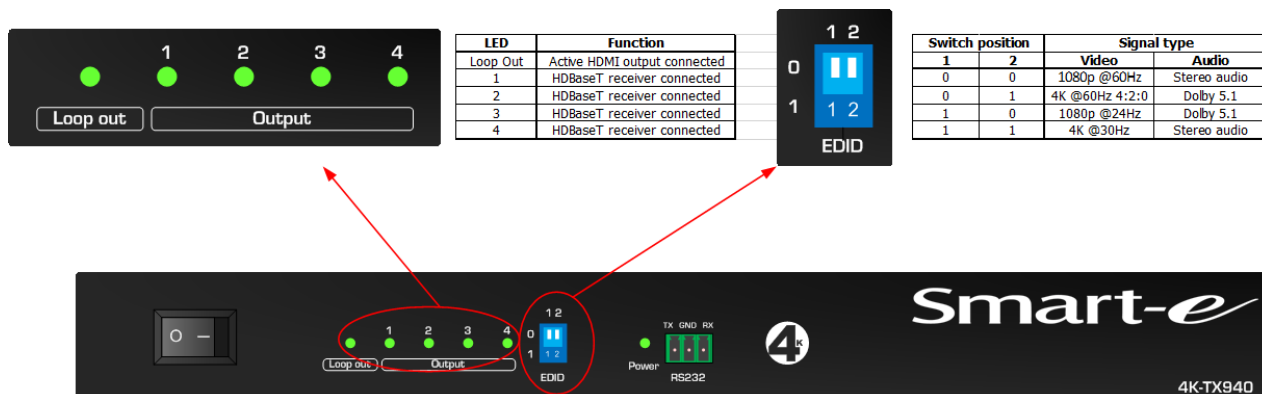
Input connector

Digital video	HDMI
Digital video loop out	HDMI
Embedded audio	HDMI
RS232	3 pin screw terminal
Cat cable	RJ45 screened connectors
Power	5.1mm DC jack socket
IR	3.5mm mini-jack socket

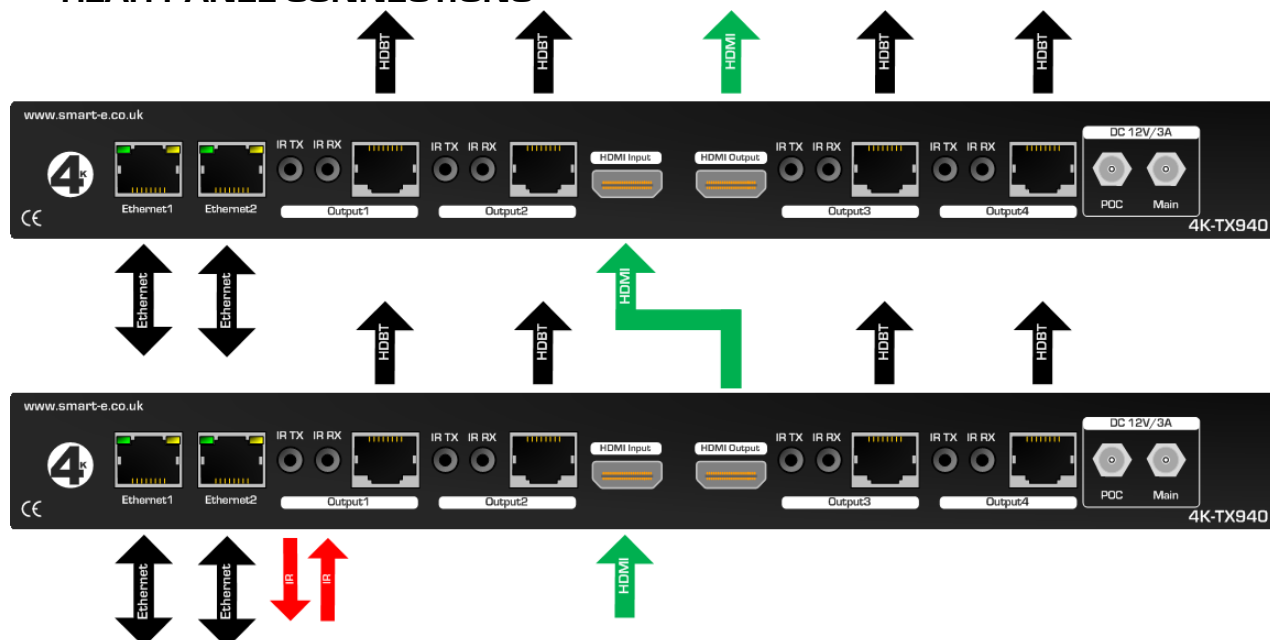
Physical

Dimensions	33mm x 305mm x 160mm
Weight	2Kg
Power	60 Watts

FRONT PANEL DETAILS



REAR PANEL CONNECTIONS



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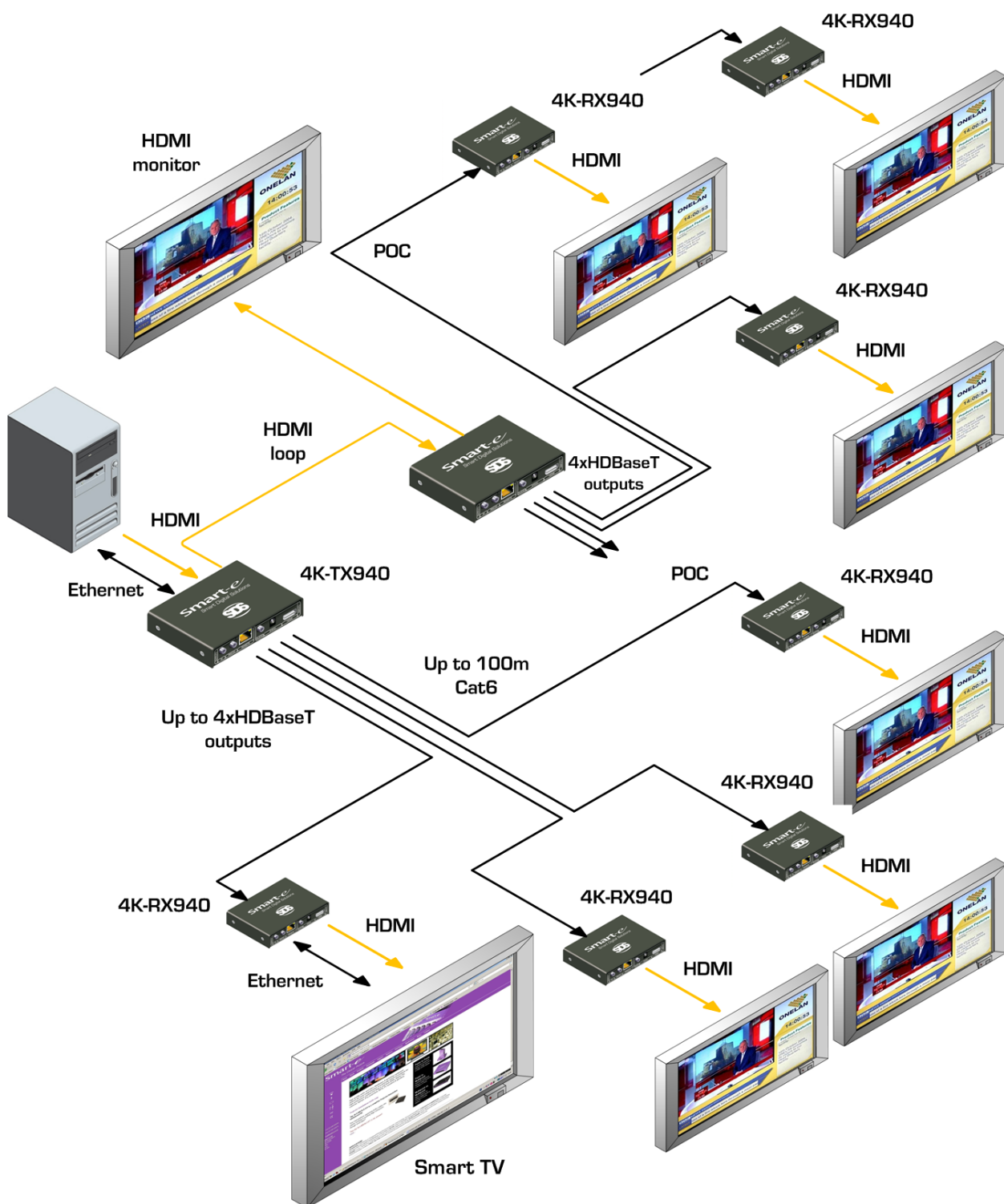
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APPLICATION DRAWING



Application showing an 8 display
configuration + a local monitor
using the looping input feature

3 year
WARRANTY / Smart-e

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